

# **2024-2029 United Arab Emirates Automated Microbiology Market--Growth Opportunities, 2024 Supplier Shares by Assay, 2024-2029 Segment Forecasts for over 100 Molecular, Identification, Susceptibility, Culture, Urine Screening and Immunodiagnostic Tests--Competitive Strategies and SWOT Analysis, Instrumentation Pipeline, Emerging Technologies, Market Barriers and Risks**

<https://marketpublishers.com/r/25893FC6F696EN.html>

Date: December 2024

Pages: 0

Price: US\$ 2,450.00 (Single User License)

ID: 25893FC6F696EN

## **Abstracts**

This new report from LeadingMarketResearch.com examines current and emerging assays; forecasts volume and sales for molecular diagnostic, microbial identification, antibiotic susceptibility, blood culture, urine screening and immunodiagnostic procedures, as well as over 100 infectious disease tests by assay and application; profiles leading players and potential market entrants; and suggests alternative market penetration strategies for suppliers. The report is available by section, and can be customized to specific information needs and budget.

### **Rationale**

The level of automation in the microbiology laboratory has been lagging behind that of other major clinical laboratory segments, such as chemistry and hematology. The slow acceptance of the technology is in part due to the complexity of developing automation suitable for microbiology tests.

The introduction of automated microbiology instrumentation has been delayed by a number of intrinsic and technical problems. The diffusion of automated microbiology systems, once the technology was developed, has not matched that of other automated laboratory technologies. The acquisition of automation in microbiology has been slowed by forces less easily identifiable than the effects of various reimbursement plans. Some

laboratorians still believe that current instrumentation is not the ultimate technology and expect better automation on the horizon.

The driving force behind the need for rapid reporting of microbiological test results is the clinical relevance in a time of financial austerity, a time when cost and health care effectiveness to the patient and diagnostician looms ever larger, and where after-the-fact results at high expense are coming under severe scrutiny worldwide.

This report will assist diagnostics industry executives, as well as companies planning to diversify into the dynamic and rapidly expanding microbiology market, in evaluating emerging opportunities and developing effective business strategies.

#### Market Segmentation Analysis

Volume and sales forecasts for over 100 infectious disease assays by individual test.

Test volume estimates by method (molecular, serology/immunodiagnosics, culture/microscopy).

#### Specimen Types

Urine

Sterile Fluids: Blood, Serum, CSF

Throat Swabs, Respiratory Secretions

Genital Secretions

Stool

Abscess/Wound

Sputum

Saliva

#### Applications

Microbial Identification

Antibiotic Susceptibility

Urine Screening

Blood Cultures

#### Review of Major Automated Systems

Review of major automated molecular diagnostic, multipurpose, specialized, microbial identification, antibiotic susceptibility, blood culture, urine screening, and immunodiagnostic analyzers.

#### Infectious Diseases Analyzed in the Report

AIDS/HIV, Adenovirus, Aeromonads, Bartonella, Blastocystis Hominis, Campylobacter, Candida, Chancroid, Chlamydia, Clostridium, Coronavirus, Coxsackievirus, Cryptosporidium, Cyclospora, CMV, E. Coli, Echovirus, Encephalitis, Enterovirus, EBV, Giardia, Gonorrhea, Granuloma Inguinale, Hantavirus, H. Pylori, Hepatitis, Herpes Influenza, Legionella, Lyme, Lymphogranuloma, Malaria, Measles, Meningitis, Microsporidium, Mononucleosis, Mumps, Mycoplasma, HPV, Parvovirus, Pneumonia, Polyomaviruses, Pseudomonas, Rabies, RSV, Rhinovirus, Rotavirus, Rubella,

Salmonella, Septicemia, Shigella, Staphylococci, Streptococci, Syphilis, Toxoplasmosis, Trichomonas, TB, Vibrio, West Nile, Yersinia.

#### Technology Review

Assessment of molecular diagnostic, monoclonal antibody, immunoassay, and other technologies and their potential applications for the microbiology market.

Global listings of companies developing or marketing microbiology products by individual test.

#### Competitive Assessments

Strategic assessments of major suppliers and emerging market entrants, including their sales, product portfolios, marketing tactics, collaborative arrangements and new products in R&D.

#### Opportunities and Strategic Recommendations

Emerging opportunities for new analyzers, reagents kits, IT and other products with significant market appeal during the next five years.

Design criteria for decentralized testing products.

Alternative market penetration strategies.

Potential market entry barriers and risks.

## Contents

- I. Introduction
- II. Major Product Development Opportunities
  - A. Instrumentation
  - B. Reagent Kits and Test Systems/panels
  - C. Computers, Software and Automation
  - D. Auxiliary Products
- III. Design Criteria for Decentralized Testing Products
- IV. Alternative Market Penetration Strategies
  - A. Internal Development
  - B. Collaborative Arrangements
  - C. University Contracts
  - D. Distribution Strategies for Decentralized Testing Markets
- V. Potential Market Entry Barriers and Risks
  - A. Market Maturity
  - B. Cost Containment
  - C. Competition
  - D. Technological Edge and Limitations
  - E. Patent Protection
  - F. Regulatory Constraints
  - G. Decentralized Testing Market Challenges
- VI. Market and Technology Review
  - A. DNA Sequencing
    - 1. Introduction
    - 2. Sequencing Methods
    - 3. Autoradiography
    - 4. The Human Genome Project
    - 5. Sequencing Automation
    - 6. Image Scanners
    - 7. Fluorescent Detection
    - 8. Gene Profiling
    - 9. Gene Expression
    - 10. Polymorphism Screening
    - 11. Protein Interaction Networks
  - B. DNA and RNA Probe Technologies
    - 1. Basic Principles
    - 2. Probe Preparation
    - 3. The DNA Probe Test

#### 4. Test Formats

#### 5. Labeling Techniques

#### 6. Amplification Methods

#### C. Detection Technologies

##### 1. Radioactive Methods

##### 2. Non-Isotopic Methods

#### D. Instrumentation

Review of latest analyzers from Abbott, Beckm an Coulter/Danaher, Becton Dickinson, bioMerieux,

Bio-Rad, Cepheid, Hologic, Qiagen, Roche, Siemens Healthineers, and others.

#### E. Biochips: Genosensors, Microarrays, Labs-on-the-Chip

- Liquid Transportation and Mixing

- Separation

- Reaction

- Detection

#### F. Pharmacogenomics

#### G. Major Applications

##### 1. Microbiology/Infectious

##### Diseases

###### a. Overview

###### b. Major Infectious

##### Diseases

- AIDS/HIV

- Adenovirus

- Aeromonads

- Anthrax/Bacillus Anthracis

- Arboviruses

- Babesiosis

- Bacillary Epithelioid Angiomatosis (BEA), other Bartonella (Rochalimaea)

- Blastocystis Hominis

- Brucella

- Campylobacter

- Candida

- Chagas Disease

## I would like to order

Product name: 2024-2029 United Arab Emirates Automated Microbiology Market--Growth Opportunities, 2024 Supplier Shares by Assay, 2024-2029 Segment Forecasts for over 100 Molecular, Identification, Susceptibility, Culture, Urine Screening and Immunodiagnostic Tests--Competitive Strategies and SWOT Analysis, Instrumentation Pipeline, Emerging Technologies, Market Barriers and Risks

Product link: <https://marketpublishers.com/r/25893FC6F696EN.html>

Price: US\$ 2,450.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/25893FC6F696EN.html>